

In the Claims

1-35 (Canceled, without prejudice.)

36-60 (Previously cancelled, without prejudice,)

61. (Allowed) An agricultural bale system for harvesting one or more agricultural bales in an agricultural field, the agricultural bale system comprising:

- a location determining system adapted to generate field location information responsive to determining a plurality of locations of the agricultural bale system in the agricultural field as the agricultural bale system travels across the agricultural field;

- a bale monitoring system adapted to generate bale information for the one or more agricultural bales responsive to monitoring the one or more agricultural bales harvested by the agricultural bale system in the agricultural field; and

- a controller, coupled to the location determining system and the bale monitoring system, adapted to:

- determine an anticipated time that the bale information would reach a desired value;

- determine an anticipated location of the agricultural bale system in the agricultural field at the anticipated time in response to receiving the field location information; and

- control the agricultural bale system in response to the anticipated location of the agricultural bale system in the agricultural field.

62. (Allowed) An agricultural bale system, according to claim 61, comprising:

- a bale discharge module adapted to discharge one or more agricultural bales from the agricultural bale system onto the agricultural field;

- wherein the controller, coupled to the bale discharge module, is adapted to cause the bale discharge module to discharge the one or more agricultural bales onto the agricultural field in response to the anticipated location of the agricultural bale system in the agricultural field.

63. (New) A system for monitoring and assisting harvesting of agricultural crop in an agricultural field, the system comprising:

a harvest monitoring system adapted to monitor harvesting of the agricultural crop by a first agricultural machine in the agricultural field to generate harvest information;

a position determining system adapted to determine a plurality of positions of the first agricultural machine in the agricultural field to generate field position information; and

a control system, coupled to the harvest monitoring system and the position determining system, and adapted to:

determine an anticipated time that the harvest information would reach a desired value in response to receiving the harvest information; and

determine an anticipated location of the first agricultural machine in the agricultural field at the anticipated time in response to receiving the field position information.

64. (New) A system, according to claim 63, wherein the control system is adapted to:

control an operation of the first agricultural machine in response to the anticipated location of the first agricultural machine in the agricultural field.

65. (New) A system, according to claim 63, wherein the harvest information comprises harvested agricultural crop level information generated in response to monitoring an amount of the agricultural crop harvested by the first agricultural machine in the agricultural field.

66. (New) A system, according to claim 63,

wherein the first agricultural machine comprises a bale harvesting machine, and

wherein the harvested agricultural crop level information comprises bale information for the one or more agricultural bales generated in response to monitoring the one or more agricultural bales harvested by the bale harvesting machine in the agricultural field.

67. (New) A system, according to claim 63, comprising:

a memory unit adapted to store field map information representing a map of the field, wherein control system further determines the anticipated location of the first agricultural machine in the field at the anticipated time in response to receiving the field map information.

68. (New) A system, according to claim 67, wherein the memory unit is adapted to update the field map information in response to receiving the field location information.

69. (New) A system, according to claim 67, wherein the memory unit is carried by the first agricultural machine.

70. (New) A system, according to claim 67, wherein the memory unit is located remote from the first agricultural machine.

71. (New) A system, according to claim 63, comprising:
an operator display carried by the first agricultural machine.

72. (New) A system, according to claim 71, wherein the operator display is adapted to display one or more of the harvest information, the field position information, the anticipated time, the desired value, and the anticipated location.

73. (New) A system, according to claim 71, wherein the operator display is adapted to display field map information, representing a map of the agricultural field.

74. (New) A system, according to claim 63, wherein the positioning determining system comprises:
a global positioning system (GPS) receiver system.

75. (New) A system, according to claim 63, wherein the field location information further comprises:
location, speed, and heading of the first agricultural machine in the field.

76. (New) A system, according to claim 63, wherein the control system is located remote from the first agricultural machine, and wherein the control system is adapted to receive the harvest information and the field position information over a radio frequency communication channel.

77. (New) A system, according to claim 63, wherein the first agricultural machine further comprises:
a harvester.

78. (New) A system, according to claim 77, wherein the harvester further comprises:
an agricultural baler.

79. (New) A system, according to claim 77, wherein the harvester further comprises:
an agricultural baler pulling an agricultural bale accumulator.

80. (New) A system, according to claim 77, wherein the harvester further comprises:

an agricultural grain harvester.

81. (New) A system, according to claim 63, comprising:

a second agricultural machine adapted to move the agricultural crop harvested by the first agricultural machine.

82. (New) A system, according to claim 81, wherein second agricultural machine comprises:

a loader adapted to transfer the agricultural crop harvested by the first agricultural machine to a third agricultural machine.

83. (New) A system, according to claim 81, wherein second agricultural machine comprises:

a motor vehicle pulling a trailer adapted to haul the agricultural crop harvested by the first agricultural machine.

84. (New) A system, according to claim 81, wherein the second agricultural machine is adapted to travel to the anticipated location of the first agricultural machine.

85. (New) A system, according to claim 84, wherein the second agricultural machine is adapted to travel to the anticipated location of the first agricultural machine at the anticipated time.

86. (New) A method for monitoring and assisting harvesting of agricultural crop in an agricultural field, the system comprising:

monitoring harvesting of the agricultural crop by a first agricultural machine in the agricultural field to generate harvest information;

determining a plurality of positions of the first agricultural machine in the agricultural field to generate field position information;

determining an anticipated time that the harvest information would reach a desired value in response to the harvest information; and

determining an anticipated location of the first agricultural machine in the agricultural field at the anticipated time in response to the field position information.

87. (New) A method, according to claim 86, comprising:

controlling an operation of the first agricultural machine in response to the anticipated location of the first agricultural machine in the agricultural field.

88. (New) A method, according to claim 86, wherein the harvest information comprises harvested agricultural crop level information generated in response to monitoring an amount of the agricultural crop harvested by the first agricultural machine in the agricultural field.

89. (New) A method, according to claim 86,

wherein the first agricultural machine comprises a bale harvesting machine, and

wherein the harvested agricultural crop level information comprises bale information for the one or more agricultural bales generated in response to monitoring the one or more agricultural bales harvested by the bale harvesting machine in the agricultural field.

90. (New) A method, according to claim 86, comprising:

storing field map information representing a map of the field, and

determining the anticipated location of the first agricultural machine in the field at the anticipated time in response to receiving the field map information.

91. (New) A method, according to claim 90, comprising:

updating the field map information in response to receiving the field location information.

92. (New) A method, according to claim 86, comprising:

displaying one or more of the harvest information, the field position information, the anticipated time, the desired value, and the anticipated location.

93. (New) A method, according to claim 86, comprising:
displaying field map information representing a map of the agricultural field.
94. (New) A method, according to claim 86, comprising:
receiving a plurality of signals from a global positioning system (GPS) system to determine the plurality of positions of the first agricultural machine in the agricultural field.
95. (New) A method, according to claim 86, wherein the field location information comprises:
location, speed, and heading of the first agricultural machine in the field.
96. (New) A method, according to claim 86, comprising:
transmitting the harvest information and the field position information over a radio frequency communication channel to a control system located remote from the first agricultural machine.
97. (New) A method, according to claim 86, comprising:
moving the agricultural crop harvested by the first agricultural machine.
98. (New) A method, according to claim 97, comprising:
transferring, by a second agricultural machine, the agricultural crop harvested by the first agricultural machine to a third agricultural machine.
99. (New) A method, according to claim 97, comprising:
hauling, by a third agricultural machine, the agricultural crop harvested by the first agricultural machine.
100. (New) A method, according to claim 97, comprising:
traveling, by a second agricultural machine, to the anticipated location of the first agricultural machine.
101. (New) A method, according to claim 100, comprising:
traveling, by the second agricultural machine, to the anticipated location of the first agricultural machine at the anticipated time.
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102. (New) A system for monitoring and assisting the harvesting of agricultural crop in an agricultural field, the system comprising:

means for monitoring harvesting of the agricultural crop by a first agricultural machine in the agricultural field to generate harvest information;

means for determining a plurality of positions of the first agricultural machine in the agricultural field to generate field position information;

means for determining an anticipated time that the harvest information would reach a desired value in response to the harvest information; and

means for determining an anticipated location of the first agricultural machine in the agricultural field at the anticipated time in response to the field position information.

103. (New) Agricultural harvest system comprising:

agricultural harvest equipment for harvesting agricultural crop in an agricultural field;

a harvest monitoring system adapted to monitor harvesting of the agricultural crop by the agricultural harvest equipment in the agricultural field to generate harvest information;

a position determining system adapted to determine a plurality of positions of the agricultural harvest equipment in the agricultural field to generate field position information; and

a control system, coupled to the harvest monitoring system and the position determining system, and adapted to:

determine an anticipated time that the harvest information would reach a desired value in response to receiving the harvest information; and

determine an anticipated location of the cultural harvest equipment in the agricultural field at the anticipated time in response to receiving the field position information.